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CLASS 1 LASER PRODUCT LASERSCHUTZKLASSE 1 PRODUKT TO EN60825

#### CAUTION:

This appliance contains a laser system and is classified as a "CLASS 1 LASER PRODUCT". To use this model properly, read this Installation Guide carefully and keep this guide for your future reference. In case of any trouble with this model, please contact your nearest HP or repair-authorized reseller service center. To prevent direct exposure to the laser beam, do not try to open the enclosure.

#### VORSICHT:

Dieses Gerät enthält ein Laser-System und ist als "LASER PRODUKT DER KLASSE 1" klassifiziert. Für den richtigen Gebrauch dieses Modells die Bedienungsanleitung sorgfältig durchlesen und als Referenz aufbewahren. Falls Probleme mit diesem Modell auftreten, die nächste "autorisierte Services-Vertretung" benachrichtigen. Um einen direkten Kontakt mit dem Laserstrahl zu vermeiden, sollte das Gehäuse nicht geöffnet werden.

CLASS 1 LASER PRODUCT
LASERSCHUTZKLASSE 1 PRODUKT
TO EN60825

#### ADVARSEL

Denne mærking er anbragt udvendigt på apparatet og indikerer, at apparatet arbejder med laserstråler af klasse 1, hviket betyder, at der anvendes laserstrlier af svageste klasse, og at man ikke på apparatets yderside kan bilve udsat for utilladellg kraftig stråling.

APPARATET BOR KUN ÅBNES AF FAGFOLK MED SÆRLIGT KENDSKAB TIL APPARATER MED LASERSTBÅLFRI

ADVARSEL: USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAF-BRYDER ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING Indvendigt i apparatet er anbragt den her gengivne advarselsmækning, som advarer imod at foretage sådanne indgreb i apparatet, at man kan komme til at udsætte sig for laserstråling.

OBS! Apparaten innehåller laserkomponent som avger laserstråining överstigande gränsen för laserklass 1

VAROITUS. Suojakoteloa si saa avata. Laite sisältää laserdiodin, joka lähetää näkymätöntä silmilie vaarallista lasersäteilyä.

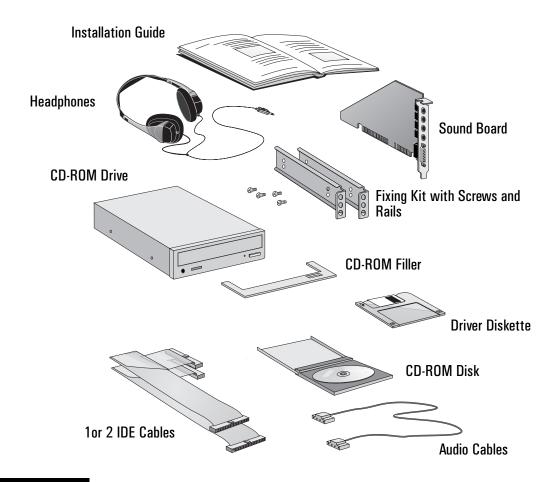
#### CAUTION

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED IN THIS GUIDE MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

#### VORSICHT

DIE VERWENDUNG VON ANDEREN STEUERUNGEN ODER EINSTELLUNGEN ODER DAS DURCHFÜHREN VON ANDEREN VORGÄNGEN ALS IN DER BEDIENUNGSANLEITUNG BESCHRIEBEN KÖNNEN GEFÄHRLICHE STRAHLENEXPOSITIONEN ZUR FOLGE HABEN.

PRODUCT IS CERTIFIED BY THE MANUFACTURER TO COMPLY WITH DHHS RULES 21 CFR SUBCHAPTER J APPLICABLE AT DATE OF MANUFACTURE. FOR DETAILS OF MANUFACTURER, SEE LABEL ON CD-ROM DRIVE CHASSIS.



# Installing Your Multimedia Sound Kit

This guide explains how to physically install the multimedia sound kit in your PC, and then how to install the driver software required to use the kit. The guide also explains how to use the CD-ROM drive.

You can find more information about your multimedia capabilities in the user's guide contained on the *HP Multimedia Sound* CD—refer to "Reading the On-Screen User's Guide" on page 24 of this guide.

# Before You Install

#### NOTE

Your PC may already be equipped with an integrated sound card, if so this must be deactivated (refer to your PC user guide), before installing this HP Multimedia Sound Kit.

#### WARNING

For your safety, never remove the PC's cover without first removing the power cord from the power outlet and any connection to a telecommunication network. Always replace the cover back before switching on again. To avoid electric shock and harm to your eyes by laser light, do not open the laser module. The laser module should be serviced by service personnel only. Do not attempt to make any adjustment to the laser unit. Refer to the label on the CD-ROM for power requirements and wavelength. This product is a class 1 laser product.

### Supported Platforms

This manual describes how to install the Multimedia Sound Kit and its setup procedure for the following operating systems supported by HP:

- Windows 95
- Windows 98
- Windows NT 4.0.
- Windows NT 3.51.

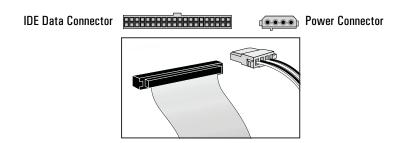
To find out on which PCs you can install a HP Multimedia Sound Kit, go to the following HP Web sites:

- For Vectra Corporate PCs http://www.hp.com.go/vectraaccessories
- For Brio Business PCs. http://www.hp.com.go/brioaccessories
- For Kayak PC Workstations http://www.hp.com.go/kayakaccessories

# Step 1: Installing the CD-ROM Drive

To install the CD-ROM drive, you may need a flat-headed screwdriver (not supplied with the drive kit).

- 1 Switch off the monitor and PC, disconnect all power cords and any telecommunication cables.
- Remove the computer's cover (described in your PC's *User's Guide*)
- 3 Select a power connector and an IDE data connector for connecting the CD-ROM drive. (Refer to your PC's *User's Guide* for information about selecting an IDE connector.)



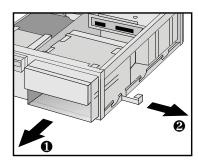
NOTE

If your PC does not have a free IDE connector, use the cable provided with the CD-ROM drive. If more than one IDE cable has been provided. use the shortest one that will fit.

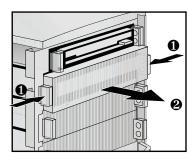
4 Select an empty drive shelf for installing the CD-ROM drive. The shelf must have front access.

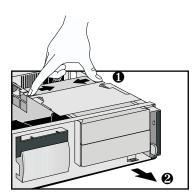
# 5 For PCs that have a drive tray or removable drive bay unit: Remove the drive tray or the drive bay unit.

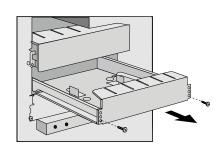
Removing drive bay unit



Removing drive tray

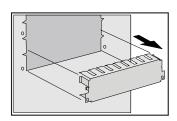


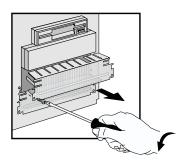




For other PCs:

Remove the RFI metal filler plate from the chosen shelf.

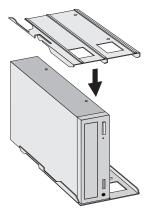




### 6 For PCs that have a drive tray or removable drive bay unit:

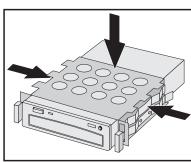
Attach the CD-ROM drive to the drive bay or drive tray.

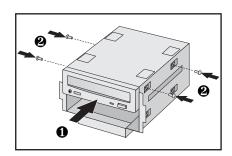
### Attaching mounting bracket to CD-ROM drive



Attaching CD-ROM drive to drive bay unit with screws

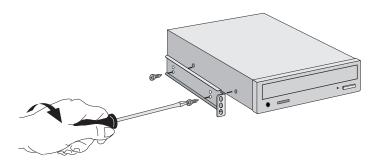
### Attaching screw-less drive tray and CD-ROM drive





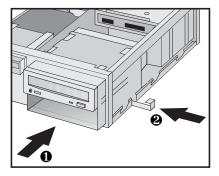
### For other PCs:

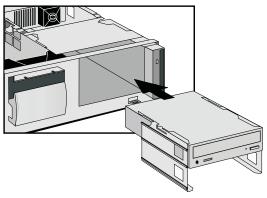
Check if the CD-ROM drive needs rails to be installed into the shelf. If rails are needed, attach the two rails onto the CD-ROM drive.



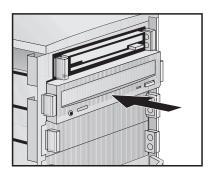
# 7 For PCs that have a drive tray or removable drive bay unit: Insert the drive bay unit or drive tray into the computer.

Inserting drive bay unit





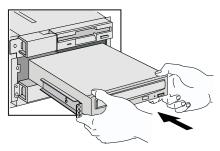
Inserting screw-less drive tray



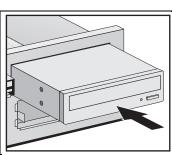
### For other PCs:

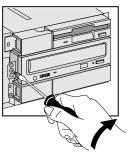
Slide the CD-ROM drive into the chosen drive shelf then, using the screws, fasten it into place.

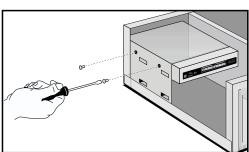
Installing CD-ROM drive in PC that uses rails



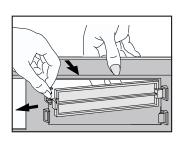
Installing CD-ROM drive into PC that does not need rails

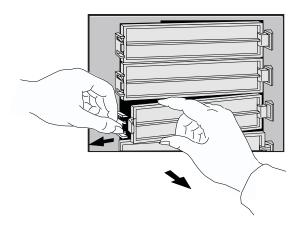




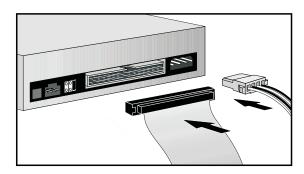


If necessary, remove the bezel from the PC's cover





9 Attach the data and power connectors to the rear of the CD-ROM drive.

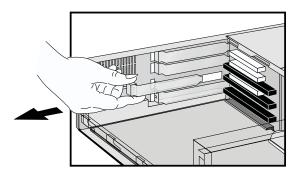


NOTE

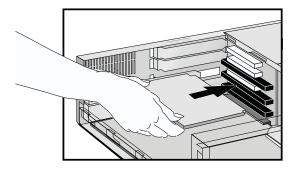
For Windows<sup>®</sup> 3.11 users only. If you use the IDE cable connector branching off the cable connected to the hard disk drive, move the pin at the rear of the CD-ROM drive to enable the jumper labeled CS. In this case, you must also disable 32-bit disk drive access, which you can do via the Control Panel—refer to your Microsoft<sup>®</sup> Windows manual for details of how to disable 32-bit access. You are recommended not to use this option if you can instead use an available IDE data cable coming direct from the system board. Step 2: Installing the Sound Board

# Step 2: Installing the Sound Board

- Select a free ISA slot. 1
- Remove the retaining bracket or screw that holds the slot cover in place.
- Remove the slot cover.



4 Aligning the sound board carefully, slide it into position and press it firmly into the slot.

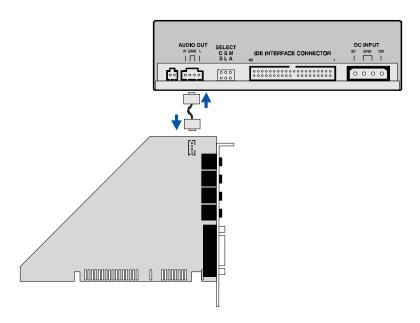


Secure the sound board in place by replacing the retaining bracket or screw.

Your sound board supports Plug and Play, which means that most operating systems are able to configure the board's software settings— I/O addresses, IRQ lines, and DMA channels—to avoid any hardware conflicts.

# Step 3: Connect the CD-ROM and Sound Board

1 Using the cable provided, connect the CD-ROM drive and sound board.



- 2 Replace the computer's cover, and reconnect the power cable and any telecommunications cables.
- 3 Switch on your PC.

In order to complete the CD-ROM and Sound Board driver installation follow the relevant sections in 'Installing the Accessory Software'.

# Installing the Accessory Software

#### Windows 95

### Installing the CD-ROM and Sound Board Drivers

#### NOTE

HP recommends that the operating system be installed and functioning fully before the board is installed in its slot.

Windows 95 automatically detects the CD-ROM drive and loads the required software driver when you switch on your PC.

To install the sound board drivers, complete the following steps:

- 1 Switch on your PC. Windows 95 automatically detects the sound board and displays the New Hardware Found, then Update the Device Drive Wizard.
- Insert the HP Multimedia Sound CD in the CD-ROM drive. (Insert the CD label side up; press the open/close pushbutton to open and close the drawer.)
- Click on the Other Locations... button to locate the Windows 95 driver setup program on the CD-ROM. It is in the directory d:\win95.
  - (The CD-ROM drive may be your E drive. In this case you would go to e:\win95.)
- Follow the instructions that are displayed on the screen.
- Restart your computer.

# Upgrading to Wave Table Quality

You can upgrade your MIDI playback to wave table quality by installing the wave table software included on the CD-ROM.

To install the wave table software, complete the following steps:

- 1 With Windows 95 running, insert the HP Multimedia Sound CD in the CD-ROM drive. (Insert the CD label side up; press the open/close pushbutton to open and close the drawer.)
- Click on the Start button, point to Settings, then click on Control Panel.

#### 1 Installing Your Multimedia Sound Kit

Installing the Accessory Software



- 4 Click on the Install... button, and then the Next button.
- 5 Type d:\wavtbl\setup and then click on the Finish button. Follow the instructions that appear on the screen.

(The CD-ROM drive may be your E drive. In this case you would enter e:\wavtbl\setup. You can check by clicking the Browse button in the Run Installation Program dialog box, and then browsing to the CD-ROM drive.)

### Windows 98

### Installing the CD-ROM and Sound Board Drivers

#### NOTE

HP recommends that the operating system be installed and functioning fully before the board is installed in its slot.

When you switch on your PC, Windows 98 automatically detects and loads both the CD-ROM and Sound Board drivers. The PC then displays New Hardware Found, then Update the Device Driver Wizard.

#### NOTE

Windows 98 automatically installs the wave table synthesizer (Roland).

#### Windows NT 4.0 Installing the CD-ROM and Sound Board Drivers

Windows NT 4.0 automatically detects the CD-ROM drive and loads the required software driver when you switch on your PC.

To install the sound board drivers, complete the following steps.

- 1 With Windows NT running, insert the HP Multimedia Sound CD in the CD-ROM drive. (Insert the CD label side up; press the open/close pushbutton to open and close the drawer.)
- 2 Click on the Start button, point to Settings, then click on Control Panel.
- 3 Double-click the Multimedia icon , and click on the Devices tab.
- 4 Click on the Add... button, and then select the Device/Add Unlisted or Updated Driver.

- 5 Type d:\nt40 and then click on the OK button. Follow the instructions that appear on the screen.
  - (The CD-ROM drive may be your E drive. In this case you would enter e:\nt40. You can check by clicking the Browse button in the Run Installation Program dialog box, and then browsing to the CD-ROM drive.)
- 6 Before restarting your computer, it is recommended you do the following:
  - If there is not enough IRQ (Interrupt Request) in your system, you can select Disable for MPU IRQ. This will not affect the performance of MPU401. To do this, click on the Devices tab in the Multimedia Properties dialog box. In the list of devices, expand the line Midi Devices and Instruments. Select the midi driver Midi for 16-bit Sound Card MPU401 Driver. Click Properties, then Settings. In the MPU IRQ check box, use the scroll arrow to select Disable.
  - Full Duplex Mode should be enabled by default.

To verify this, click on the Devices tab in the Multimedia Properties dialog box. In the list of devices, expand the line Audio Devices. Select the audio driver Audio for 16-bit Sound Card Audio Driver. Click Properties, then Settings. The Full Duplex check box should display enabled. If this is not the case, then use the scroll arrow to select Enable.

7 Restart the computer.

#### Windows NT 3.51 Installing the CD-ROM and Sound Board Drivers

- 1 Start Windows NT if it is not already running.
- 2 From the Main program group, double-click on the Windows NT Setup icon 🚚.
- 3 From the Options menu, select Add/Remove SCSI Adapters.
- 4 In the SCSI Adapter Setup window, click on Add and then click on OK at the advisory message to continue.

- 5 In the Adapter list in the Select SCSI Adapter Option window, select IDE CD-ROM (ATAPI 1.2)/Dual-channel PCI IDE and click on Install.
- 6 Follow the instructions on the screen. You will be prompted to insert the correct Windows NT setup floppy disk containing the driver.
- 7 When you have installed the CD-ROM driver, shut down and restart the computer for the driver to be loaded.

#### NOTE

If you are using Windows NT version 3.5 with the ATAPI driver version 1.2, you may notice an incompatibility problem when you perform a warm reboot (Shutdown and then Restart without switching off). The operating system may not recognize the CD-ROM drive. To correct this problem, instead perform a cold reboot (switch the computer off and on again). Upgrading to Windows NT version 3.51 will resolve the problem.

### Installing the Sound Board Drivers 1

- 1 With Windows NT running, insert the *HP Multimedia Sound* CD in the CD-ROM drive. (Insert the CD label side up; press the open/close pushbutton to open and close the drawer.)
- 2 From the Program Manager, click on the File menu and click on Run.

  Type d:\nt351\setup follow the instructions that appear on the screen.
  - (The CD-ROM drive may be your E drive. In this case you would enter e:\nt351\setup \( \setup \) You can check by clicking the Browse button in the Run dialog box, and then clicking on the Drives drop-down list.)
- 3 When the driver has been installed, you see the 16-bit Audio Board Setup window.
- 4 Click on the OK button.
- 5 Restart the computer.

# Installing the CD Audio Driver

The audio driver ((MCI) CD Audio) may be already installed on your computer. You can check whether it is and, if it is not, install it by performing the following steps.

- 1 With Windows NT running, double-click on the Main program group 📲 .
- 2 Double-click on the Control Panel icon 📜 .



- 4 Check whether the driver (MCI) CD Audio is displayed in the Installed Drivers list. If it is, click on the Cancel button to exit the installation procedure. If the driver is not displayed, continue from step 5.
- 5 Click on Add.
- 6 Click on (MCI) CD Audio, then click on OK.
- 7 Restart the computer.

#### Windows 3.11 Installing the CD-ROM and Sound Board Drivers

Use the floppy disk included in the kit, labeled *IDE CD-ROM drivers*, to install the CD-ROM driver.

- 1 Do not run Windows. If you are already in Windows, close it first.
- 2 Insert the floppy disk labeled *IDE CD-ROM drivers* in your flexible disk drive.
- 3 At the MS-DOS® prompt, type a:install 🖾 Enter This installation program copies the CD-ROM driver to the C:\DEV directory. (The driver is **FDATACD.SYS**.)
- 4 When the installation program displays **Modify CONFIG.SYS and AUTOEXEC.BAT** (Y/N)?, type Y — Enter ... (See also step 5.)
  - The installation program adds this line to the CONFIG.SYS file:

DEVICE=C:\DEV\FDATACD.SYS /D:MSCD0HP

The installation program adds this line to the AUTOEXEC.BAT file:

MSCDEX.EXE /D:MSCD0HP /M:12

#### 1 Installing Your Multimedia Sound Kit

Installing the Accessory Software

If the **SMARTDRY** statement is found in the AUTOEXEC.BAT file. the parameter /u is added to the statement, if not already present. This parameter disables the SMARTDRV CD-ROM caching.

#### NOTE

If your AUTOEXEC.BAT file includes the **win** command (to start Windows automatically), you must edit your AUTOEXEC.BAT file to place win after the MSCDEX.EXE /D:MSCDOHP /M:12 line. This modification will allow the MSCDEX command to be launched before Windows starts.

• If the CD-ROM drive is connected to the same cable as the hard disk drive (that is, it is connected as a slave on the primary IDE channel), the following two lines are added or modified in the SYSTEM.INI file:

### VirtualHDIRO=Off 32BitDiskAccess=Off

The original CONFIG.SYS, AUTOEXEC.BAT, and SYSTEM.INI files are saved under the new names CONFIG.ORG, AUTOEXEC.ORG, and SYSTEM.ORG.

- 5 If you don't want to modify these files, type **n** and press \( \square\) Enter The installation program makes copies of the system files, adds the lines described above (in step 4), and saves the new files as CONFIG.NEW, AUTOEXEC.NEW, and SYSTEM.NEW.
- 6 When the procedure is complete, remove the floppy disk and restart your PC.

On start-up, the system reads the new system files and installs the CD-ROM driver.

### Installing the Sound Board Driver

#### NOTE

HP recommends that you let the ISA Configuration Utility(ICU) automatically configure the reources used by the sound board. If, however, you use the ICU to manually specify the resources used, the configuration choices available are:

**Audio** You can select configuration choices 1, 2, or 3. Configuration choices 4 and 5 cannot be selected.

**Game Port** You can select configuration choice 1 only

The following procedure installs the sound board drivers and also the audio programs. For more information on these programs and on this installation procedure, refer to the on-screen user's guide—page 24 tells you how to read the guide.

- 1 With Windows running, insert the *HP Multimedia Sound* CD in the CD-ROM drive. (Insert the CD label side up; press the open/close pushbutton to open and close the drawer.)
- 2 From the Program Manager, click on the File menu and click Run...

In the command line, type d:\win311\setup — Enter follow the instructions that appear on the screen.

(The CD-ROM drive may be your E drive. In this case you would enter e:\win311\setup \( \frac{\text{definition}}{\text{definition}} \). You can check by clicking the Browse button in the Run dialog box, and then clicking on the Drives drop-down list.

During the installation you are asked to select either a "Full" installation or a "Custom" installation. If you choose "Full", the system files, DOS drivers, Windows drivers, and utilities are all installed. If you choose "Custom", you have the opportunity to install or to not install the DOS drivers, Windows drivers, and utilities. The system files are always installed.

If you see the message "Configuration Manager not found", exit the installation program as instructed. Install the ISA Configuration Utility (ICU) and then run this audio software installation program again. The ICU is required to configure the sound board settings.

(If you experience a problem with the ICU when trying to change the sound board settings, it could be due to the version of your BIOS. Call HP Support for assistance).

### Installing the CD Audio Driver

The CD player requires that the CD audio driver be installed.

- 1 With Windows running, Double-click on the Main program group .
- 2 Double-click on the Control Panel icon 📜 .
- 4 Click on Add.
- 5 Click on (MCI) CD Audio, then click on OK.
  You are prompted to insert the Windows options disk or to type a pathname.
- 6 Type: c:\windows\options. Then click on OK.
  The message "One CD-ROM drive was detected.
  Installation is complete" is displayed.
- 7 Click on OK and then Click on Close.

### Installing the Mixer Application

During the installation of the sound board drivers, the mixer application may have been installed. You can check this by looking for the Clef Studio group in the Program Manager group. If the Clef Studio group does not exist, you can create it by installing the Clef Studio software. To do this:

- 1 With Windows running, insert the *HP Multimedia Sound* CD in the CD-ROM drive. (Insert the CD label side up; press the open/close pushbutton to open and close the drawer.)
- 2 From the Program Manager, click on the File menu and click Run...

In the command line, type d:\win311\clefstud\setup \\_\_Enter and then follow the instructions that appear on the screen.

(The CD-ROM drive may be your E drive. In this case you would enter e:\win311\clefstud\setup (\square Enter ). You can check by clicking the Browse button in the Run dialog box, and then clicking on the Drives drop-down list.

### OS/2 Warp

### Installing the CD-ROM and Sound Board Drivers

OS/2 Warp contains its own driver software for the CD-ROM.

- 1 With OS/2 running, double-click on the OS/2 System folder and then double-click on the System Setup folder.
- 2 Double-click on the Selective Install icon.
- 3 Click on the CD-ROM Device Support icon and, from the list of devices, select Non-listed IDE CD-ROM and click on OK.
- 4 Click on OK at the System Configuration window.
- 5 At the OS/2 Setup and Installation window, make sure Multimedia Software Support is selected, and click on Install.
- 6 If a location such as C:\disketts\os2v3 is displayed as the driver location, click on Install. (Your system is preset to locate the driver.)
  - Otherwise, insert the OS/2 Warp Program Disk if you have the CD and if the CD-ROM driver is already installed. Leave D:\OS2IMAGE entered as the location. Click Install.
  - Otherwise, enter A: and click on Install, and insert the OS/2 Warp installation floppy disk as instructed.
- When installation is complete, shut down and restart your system.

# Installing the Sound Board Driver

#### NOTE

HP recommends that you disable the Automatic Power Management (APM) feature from the BIOs. To do this, run the Setup program (press F2 while F2=Setup is displayed during the system start-up routine), go to the Power menu and set the Standby Delay to "None" or "Off".

For additional information regarding installation of the sound board software with OS/2, refer to the readme file in the OS2 directory on the HP Multimedia Sound CD-ROM.

#### 1 Installing Your Multimedia Sound Kit

Installing the Accessory Software

The driver software for the sound board is on your *HP Multimedia* Sound CD.

If you already have OS/2 Warp installed with any embedded audio driver on your system, you must uninstall the Multimedia Software Support under OS/2, and then reinstall the Multimedia Software Support. To do this:

- 1 With OS/2 running, double-click on the OS/2 System folder and then double-click on the System Setup folder.
- 2 Double-click on the Selective Uninstall program.
- 3 Click on the box next to Multimedia Software Support, and then click on the Uninstall button.
- 4 Click on the OK button, and then click on the Yes button.
- 5 At the confirmation message, click on the OK button and then the Cancel button.
- 6 Shut down and restart the PC. (If an error message appears when you restart the PC, see "To change the sound board settings at any time, repeat this installation procedure. Do not use Selective Install. If you change the sound board settings using Selective Install, you may lose the sound functions. If this happens, reinstall the sound board driver as described above." on page 21.)
- 7 Double-click on the OS/2 System folder and then double-click on the System Setup folder.
- 8 Double-click on the Selective Install folder.
- 9 Click on the icon next to the Multimedia Device Support option.
- 10 Click on the << Remove button to remove any audio drivers that are in the right-hand-side window.
- 11 Click on the OK button. The System Configuration screen reappears. Check that None is selected under Multimedia Device Support.
- 12 Click on the OK button, and make sure Multimedia Software Support is selected.
- 13 Click on the Install button. Follow the instructions that appear on the screen.
- 14 Restart the PC.

- 15 Double-click on the Multimedia folder.
- 16 Double-click on the Multimedia Application Install folder.
- 17 Insert the HP Multimedia Sound CD in the CD-ROM drive.
- 18 In the installation window, select the drive letter that corresponds to the CD-ROM drive (D: or E:) and click on the Install button.
- 19 Select the OS/2 directory, click on Sound Galaxy, and click on the Install button.
- 20 Click on the Yes button in the Change CONFIG.SYS dialog box.
- 21 Select 1 when the system asks you to select the total number of Sound Galaxy sound boards.
- 22 Click on the OK button to accept the default settings for the sound board. The system updates the CONFIG.SYS file. Follow the instructions that appear on the screen.
- 23 Shut down and restart the PC.

### **CAUTION**

To change the sound board settings at any time, repeat this installation procedure. Do *not* use Selective Install. If you change the sound board settings using Selective Install, you may lose the sound functions. If this happens, reinstall the sound board driver as described above.

# **Troubleshooting**

If the error message "SYS1719" is displayed during the installation, this indicates that the file C:\MMODEVICE (specified in the DEVICE statement in the CONFIG.SYS file) does not contain a valid device driver or file system driver.

If you receive this error message after removing Multimedia Software Support from your system, it means that OS/2 did not modify your CONFIG.SYS file correctly. You therefore need to fix this problem before continuing with the installation. To do this:

- 1 Open the OS/2 System Folder.
- 2  $\,$  Open the OS/2 System Editor.
- 3 Open the C:\CONFIG.SYS file under the OS/2 root directory.

### 1 Installing Your Multimedia Sound Kit

Installing the Accessory Software

4 Enter/correct the following lines:

DEVICE=C:\MMOS2\SSMDD.SYS DEVICE=C:\MMOS2\ROSTUB.SYS

- 5 Save the file as a plain text file.
- 6 Close the OS/2 System Editor program.
- 7 Shut down and restart the PC.
- 8 Continue with the installation.

# Using Your CD-ROM Drive

Your CD-ROM drive reads information or programs on a CD. It cannot record to a CD. For instruction about accessing specific information stored on a CD, refer to the documentation supplied with the CD.

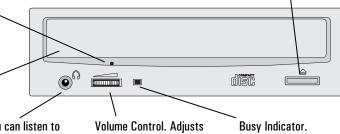
(The CD-ROM drive layout may vary slightly from that shown here.)

Emergency Eject. Used to open the CD-ROM drive mechanically when the power supply is off.

Door. Protects the CD-ROM drive from dust contamination and accidental damage.

Headphones Socket. If you use this socket, you can listen to music CDs by connecting headphones directly to the CD-ROM drive using a stereo mini-jack. This does not cut out your external computer speakers. Adjust the volume using the Volume Control next to the socket (the audio software does

Open/Close Pushbutton. Opens or closes the CD-ROM drawer. Place the CD, label side facing up, in the recess in the drawer. Make sure the CD sits snugly in the drawer, lying underneath the two back tabs.



Volume Control. Adjusts the volume of music played through headphones connected to the CD-ROM drive. Busy Indicator. Glows bright when the drive is active.

#### WARNING

not affect the volume)

To avoid electrical shock and harm to your eyes by laser light, do not open the CD-ROM drive enclosure. Do not attempt to make any adjustment to the CD-ROM drive. Refer servicing to qualified personnel only. Refer to the label on the CD-ROM for power requirements and wavelength. The CD-ROM drive is a Class 1 laser product.

# Ejecting a CD When the Open/Close Pushbutton is Disabled

If the Open/Close pushbutton is disabled by software or a power failure, use this procedure to remove a CD:

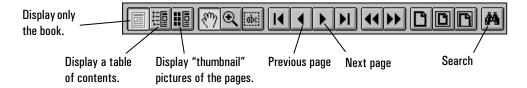
- Turn off the PC.
- 2 Insert a straight rod (for example, a straightened paper clip) into the emergency eject hole. The drawer should eject by about 15mm.
- 3 Slowly pull out the drawer by hand until the CD can be easily removed. Push the drawer gently back into the drive to close it.

# Reading the On-Screen User's Guide

Your *HP Multimedia Sound* CD contains a user's guide with more information about setting up and using sound on your PC. The user's guide is viewable using Acrobat™ Reader, which is also on the CD.

- 1 Insert the *HP Multimedia Sound* CD in your CD-ROM drive.
- 2 If your operating system is OS/2, run Windows. Acrobat Reader is usable only in the WIN-OS/2 environment.
- 3 Using, for example, the File Manager or the Windows Explorer, locate and double-click on the file acroread.exe on the CD in the subdirectory for your language. For example, the UK English version is at: d:\doc\engl-uk\acroread.exe.
  - (The CD-ROM drive may be your E drive, not your D drive.)
- 4 Double-click on the **acroread.exe** file name to begin the installation of Acrobat Reader. Follow the installation instructions.
  - Acrobat Reader requires approximately 2.5 MB of disk space on your hard disk. The installation procedure creates a program group called Adobe™ Acrobat, containing an Acrobat Reader item.
- 5 Start Acrobat Reader. In the Open dialog box, locate and open the user's guide on the CD. The guide is a PDF file in the same language subdirectory as the acroread.exe file. For example, the British (U.K.) English version is at d:\doc\engl-uk\usrguide.pdf.
  - In future, with Acrobat Reader already installed on your hard disk, you can open the user's guide by simply double-clicking on the PDF file in File Manager or Windows Explorer.

The Acrobat Reader help system will show you how to use the Reader. To begin, try using these buttons on the toolbar:



# Solving Problems with Your CD-ROM Drive

If you are having problems reading data on a CD, try the following steps:

- 1 Ensure that the CD is correctly inserted in the drive and that the disk drawer is closed.
- 2 Ensure that the disk in the CD-ROM drive is a data disk, and not an audio disk.
- 3 Check that you typed the correct drive letter which identifies the CD-ROM to your computer.
- 4 Check that you are not attempting to write data to a CD.
- 5 Check that the CD is not dirty or damaged.

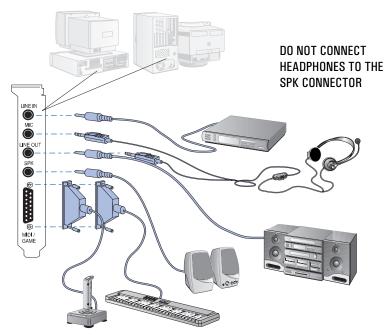
If you are having problems with sound when playing an audio CD, refer to the problem-solving advice in the on-screen user's guide. See "Reading the On-Screen User's Guide" on page 24.

If you are having problems using the CD-ROM drive at all, or if your PC does not recognize the CD-ROM drive, you need to check the installation of the drive. Refer to "Step 1: Installing the CD-ROM Drive" on page 3 of this guide, and do the following:

- 1 Check that the CD-ROM drive is enabled in the Setup program.
- 2 Check the CD power cable and data cable connections.
- $3\,\,$  Check that the CD-ROM is physically correctly installed.
- 4 Check the jumper settings at the rear of the CD-ROM drive:
  - If the CD-ROM drive is connected directly to the system board via its own data cable, the jumper should be set to the MA position.
  - If the CD-ROM drive is connected to the same cable as the hard disk drive, the jumper pin should be set to the CS position.
- 5 Check that the CD-ROM driver software is correctly installed—refer to the instructions given earlier in this guide, appropriate to your own operating system.

# Connecting Speakers and Other Devices

After installing the sound board, you can connect speakers, headphones, and other devices to your computer's rear panel as shown below. Some models of computers also have a front panel with a headphones socket and a volume control. (Do not use the headphones socket on the CD-ROM drive, however, as this lets you hear output only from music CDs; through the panel socket you will hear sounds from training presentations, MIDI music files, and all other audio software.)



WARNING

If your PC is multimedia or if you add a sound card to your PC, always turn the volume down before connecting headphones or speakers, to avoid discomfort from unexpected noise or static. Listening to sounds for prolonged periods of time may permantly damage your hearing. Before putting on headphones, place them around your neck and turn the volume down. When you put on the headphones, slowly increase the volume until you find a comfortable listening level. When you hear comfortably and clearly, without distortion, leave the volume control in that position.

# CD-ROM Drive (32X Maximum) Specifications

Data Capacity

• 650 MB (Mode 1)

• 742 MB (Mode 2)

Data Transfer Rate

• Sustained Transfer Rate (1k-210-1,024)

Inner-side 2,055 kbytes/s (14X, Mode-1)

Outer-side 4,800 kbytes/s (32X, Mode-1)

• Burst Transfer Rate

PIO Mode 4 16.6 Mbytes/s max.

Single Word DMA Mode 2 8.3 Mbytes/s max.

Multi Word DMA Mode 2 16.6 Mbytes/s max.

**Buffer Size** 

• 128 KB

Access Time

Average (1/3 Stroke) 110 ms (typical)

Full Stroke 180 ms (typical)

**Rotational Speed** 

Approximate 7,300 rpm maximum.

Interface

ATAPI

**Power Requirements** 

• 5V => 0.8A, 12V => 0.6A

Supported CD-ROM

Disks

• (confirmed by Red, Yellow, Green, Orange Book)

- CD-ROM Mode-1 data disk
- CD-ROM Mode-2 data disk
- CD-ROM XA
- CD-I
- Photo-CD Multisession
- CD Audio disk
- Mixed mode CD-ROM disk (data and audio)
- CD-Extra
- CD-R
- CD-RW (Multiread Compatibility. You need to have CD-UDF drivers from ADAPTEC to have full CD-RW support.)

# Sound Board Specifications

#### Digitized Sounds

- Sound Blaster 2.0 and Sound Blaster Pro II compatible
- 16-bit and 8-bit stereo sampling from 5 kHz to 48 kHz
- 8-bit DMA transfer on channel 0, 1 or 3
- 8-bit ADPCM decompression in hardware (2:1, 3:1, and 4:1)
- 16-bit software-based real-time audio compression/decompression system with the following standards: CCITT A-law (16:8), CCITT μ-law (16:8)

#### Music Synthesizer

- 2-operator mode generates 18 voices or 15 voices plus 5 rhythm sounds simultaneously
- 4-operator mode generates 6 voices in 4 operator-mode plus 6 voices in 2-operator mode; or generates 6 voices in 4-operator plus 3 voices in 2-operator plus rhythm sounds simultaneously
- Stereo output with 44.1 kHz sampling frequency

#### Mixer

- Output mixing of all audio sources: digitized sounds, FM music, microphone, line in, CD audio, and system sounds (PC speaker)
- Input mixing sources: FM music, microphone, line in, CD audio
- Multiple source recording
- Level volume control for digitized sounds, FM music, microphone, line in, CD audio, and master volume

# Built-in Stereo Power **Amplifier**

Two watts per channel with 4 ohms stereo output

#### **Built-In Interfaces**

- MIDI interface for connection to external MIDI devices ☐ Sound Blaster and MPU-401 UART mode compatible
  - ☐ Input buffer: 64-byte FIFO
- Telephone Answering Device (TAD) interface for connection to a voice modem board
- AUX In interface for connection to MPEG (for audio compression/decompression), TV tuner, or other similar auxiliary boards

Microphone Input

• Sensitivity: 30 mVpp to 200 mVpp

Sound Board Codec

- High-performance, 16-bit stereo ADC/DAC
- Over-sampling Delta-Sigma technology
- 80-dB maximum dynamic range

Settings (all by software)

- Audio I/O address selection: 220H, 240H
- MIDI I/O address selection: 300H or 330H
- Interrupt (IRQ) selection: 3, 4, 5, 9, 10, 11 or 15
- 8-bit ("High") DMA selection: channel 0, 1 or 3
- Wave address: 534H, 608H, E84H, F44H

Nonchangeable settings:

- Game Port I/O address range is 200H to 207H
- FM Music synthesizer I/O address range is 388H to 38BH.

# **HP Support Services**

The latest drivers and utilities are available on HP's Web site at:

For HP Vectra PCs www.hp.com/go/vectrasupport

For HP Brio PCs www.hp.com/go/briosupport

For HP Kayak PC Work- www.hp.com/go/kayaksupport

stations

# RegulatoryInformation

DECLARATION OF CONFORMITY According to ISO/IEC Guide 22 and EN 45014

Manufacturer's Name: Manufacturer's Address: HEWLETT-PACKARD 5 Avenue Raymond Chanas

38053 Grenoble Cedex 09

FRANCE

Declares that the product:

Sound Card **Product Name:** Model Number: D5183A

**Conforms to the following Product Specifications:** 

SAFETY

International: IEC 60950:1991 + A1 + A2 + A3 + A4 / GB4943-1995

Europe:

EN 60950:1992 + A1 + A2 + A3 + A4

**EMC** 

CISPR 22:1993 / EN 55022:1994 Class B1

EN 50082-1:1992

IEC 801-2:1992 / pren 55024-2:1992 - 4kV CD, 8kV AD

IEC 801-3:1984 / prEN 55024-3:1991 - 3V/m

IEC 801-4:1988 / prEN 55024-4:1992 - 0.5 kV Signal Lines, 1 kV Power Lines

IEC 555-2:1982 + A1:1985 / EN60555-2:1987 IEC 1000-3-3:1994 / EN61000-3-3:1995

FCC Title 47 CFR, Part 15 Class B2 / ICES-003, Issue 2

VCCI-B

AS/NZ 3548:1992

Supplementary information: The product herewith complies with the requirements of the following Directives and carries the CE-marking accordingly: The EMC directive 89/336/EEC amended by the directive 93/68/EEC; The Low Voltage Directive 73/23/EEC.

Jean-Marc JULIA

Grenoble

January 1999

Quality Manager

For Compliance Information ONLY, contact: Hewlett-Packard Company, Corporate Product Regulations Manager,

3000 Hanover Street, Palo Alto, CA 94304. (Phone: (415) 857-1501)

<sup>1)</sup> The product was tested in a typical configuration with Hewlett-Packard Personal Computer Systems.

<sup>&</sup>lt;sup>2)</sup>This Device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### FCC (for USA only)

Federal Communications Commission Radio Frequency Interference Statement Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to correct the interference by one or more of the following measures:

- · reorient or relocate the receiving antenna
- $\bullet$  increase the separation between the equipment and the receiver
- connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- consult the dealer or an experienced radio/TV technician for help.

Hewlett-Packard's system certification tests were conducted with HP-supported peripheral devices and HP shielded cables, such as those you receive with your system. Changes or modifications not expressly approved by Hewlett-Packard could void the user's authority to operate the equipment

#### Notice for Canada

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la Classe B est conforme à la norme NMB-003 du Canada.

### Notice for Japan

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This HP accessory is covered by a limited hardware warranty for a period of one year from the date of purchase by the original end-user. The type of service provided is return to an HP or repair-authorized reseller service-center.

At Hewlett-Packard's discretion, a defective accessory will be repaired or replaced by a new unit, either of the same type or of an equivalent model.

If this accessory is purchased and used together with an HP Vectra, HP Brio personal computer or an HP Kayak PC Workstation, it will be covered by the warranty of this computer or workstation, under the same conditions of service and duration.

Please, refer to the warranty statement provided with your HP personal computer or PC workstation for warranty limitations, customer responsibilities and other terms and conditions.

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# **HP Software Warranty**

THIS WARRANTY STATEMENT TAKES PRECEDENCE OVER ANY OTHER SOFTWARE WARRANTY STATEMENT INCLUDED WITH THIS PRODUCT.

#### **Ninety-Day Limited Software Warranty**

HP warrants for a period of NINETY (90) DAYS from the date of the purchase that the software product will execute its programming instructions when all files are properly installed. HP does not warrant that the software will be uninterrupted or error free. HP does not warrant to the performance of usefulness of any software provided with your computer product. Unless otherwise expressly provided by HP, it is your own responsibility to obtain the latest version of any software and support directly from the software owner or authorized distributor. In the event that this software product fails to execute its programming instructions during the warranty period, Customer's remedy shall be a refund or repair. Should HP be unable to replace the media within a reasonable amount of time, Customer's alternate remedy shall be a refund of the purchase price upon return of the product and all copies.

#### Removable Media (If supplied)

HP warrants the removable media, if supplied, upon which this product is recorded to be free from defects in materials and workmanship under normal use for a period of NINETY (90) DAYS from the date of purchase. In the event the media proves to be defective during the warranty period, Customers remedy shall be to return the media to HP for replacement. Should HP be unable to replace the media within a reasonable amount of time, Customers alternate remedy shall be a refund of the purchase price upon return of the product and destruction of all other nonremovable media copies of the software product.

#### **Notice of Warranty Claims**

Customer must notify HP in writing of any warranty claim not later than thirty (30) days after the expiration of the warranty period.

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(9 Nov 1998)



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